

Garrett Beatty

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EXPERIENCE

Comcast – Philadelphia, PA

Software Engineer

June 2019 – Present

- Developing microservices that support over 31,000 technicians in the field using Spring Boot, MongoDB, and Kafka.
- Led multiple engineers and coordinated the development for a telematics project that allows technician supervisors to receive alerts about technician habits.
- Reduced deployment configuration time by 98% by migrating CI/CD from GoCD to Concourse.
- Automated the process of creating new microservices, creating load balancers, and updating property configurations.
- Rearchitected the logging pipeline to dramatically reduce data loss and improve Kibana indexing.

Lockheed Martin – Moorestown, NJ

Software Engineering Intern

June 2018 – August 2018

- Worked on an Agile team to support the development of the Aegis Combat System using Java and C++.
- Automated parts of the build process using Jenkins, Python, and Bash.

The College of New Jersey – Ewing, NJ

Machine Learning Student Researcher

January 2017 – December 2017

- Designed a machine learning and natural language processing infrastructure with a team of 5 students and faculty in Python using machine learning and statistical analysis libraries such as scikit-learn, numpy, pandas, and matplotlib.
- Improved the speed of the infrastructure by 95% by adding support for parallel processing on the HPC.

Comcast – Philadelphia, PA

Software Engineering Intern

June 2016 – August 2016

- Increased the efficiency of the Quality Assurance team by creating a Node.js application that automatically generates unit testing reports, which can be filtered by date, device type, operating system, etc.

EDUCATION

The College of New Jersey – Ewing, NJ

Bachelor of Science, Computer Science

August 2015 – May 2019

Advanced Courses: Natural Language Processing, High Performance Computing, Cryptography

Co-Founder/President: TCNJ Table Tennis Club

SKILLS

Proficient: Python, Java

Libraries/Frameworks: Spring Boot, Django, Flask, Scikit-Learn, Numpy, Tensorflow, Pandas, Matplotlib, Keras, OpenCV

Tools: Git, MongoDB, Cloud Foundry, Elasticsearch, Logstash, Kibana, Docker, Kafka, Vault, Concourse

PERSONAL PROJECTS

Android Application – “arXiv Explorer”

Published an Android application with over 11,000 downloads that allows users to browse, search, and download scientific papers from arxiv.org.

PUBLICATIONS

“The Use of Unlabeled Data versus Labeled Data for Stopping Active Learning for Text Classification”, *Proceedings of the 2019 IEEE 13th International Conference on Semantic Computing (ICSC), Newport Beach, CA, 2019.*

“Impact of Batch Size on Stopping Active Learning for Text Classification”, *Proceedings of the 2018 IEEE 12th International Conference on Semantic Computing (ICSC), Laguna Hills, CA, 2018.*